

# COMMUNICATION EQUIPMENT FOR VEHICLE AND TRAVELING VEHICLE MONITORING SYSTEM

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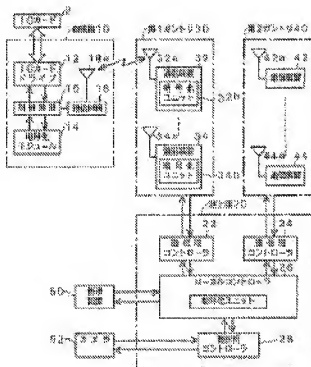
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## Abstract of JP 9115019 (A)

**PROBLEM TO BE SOLVED:** To shorten the communication time by efficiently ciphering data at communication equipment for vehicle for exchanging ciphered data with on-road equipment. **SOLUTION:** In this system in which communication equipment 32, 42... are provided at guntries 30 and 40 installed on a vehicle traveling road, communication using the ciphered data is performed with on-vehicle equipment 10 through the communication equipment 32, 42... and a passage fee is automatically collected from an IC card 2, an on-vehicle equipment 10 ciphers and deciphers the communication data before entering the guntries 30 and 40 and after passage. Besides, the ciphered data are also used for writing data into the IC card 2 but a high-speed processable algorithm different from the IC card 2 is used for ciphering the communication data.; As a result, since it is enough to cipher/decipher the data only on the side of on-road equipment 20 at the time of communication and this operation can be performed at a high speed, the communication time can be shortened and data communication can exactly be executed within limited time during traveling.



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